PERIODIC TEST- I	
NAME: CLASS: XII	SUBJECT: PHYSICS M. MARKS:20
General Instructions: i. All questions are compulsory ii. This question paper is divided into four sections – A, B and C, iii. Section A contains two questions of 2 marks each, Section B contains three questions o iv. Section C contains two questions of 3 marks each.	of 2 marks each,
Section A	
Q1. Multiple choice questions. i) If the sizes of charged bodies are very small compared to the distances between then	(1x4) n, we treat them as
a) Zero charges b) Point charges c) Single charge d) No charges ii) The force per unit charge is known as	
 a) Electric current b) Electric potential c) Electric field d) Electric space iii) The work done in moving a unit positive test charge over a closed path in an electric f a) Always 1 b) Infinite c) Zero d) Negative iv) A surface that has the same electrostatic potential at every point on it is known as a) Equal-potential surface b) Same potential surface c) Equi-magnitude surface d) Equipotential surface 	
Section B	(2x5)
Q2. State Coulombs law and derive equation for unit charge.	
Q3. What is the force between two small charged spheres having charges of 2×10^{-7} C and	I 3 × 10 ^{−7} C
placed 30 cm apart in the air?	
Q4. State gauss theorem in electrostatics. Q5. Draw graph between electric field and distance due to charged sphere on the surface a	and outside the
sphere.	
Q6. Draw the diagram of electric field due to a positive and negative charge.	
Section C	(3 x2)
Q7. Derive an expression for the electric field intensity at a point on the axial line of a dipo	ole?
Q8. Using gauss theorem find electric field due to charged sheet?	
Or	
Using gauss theorem find electric field due to charged infinitely long wire?	